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Title: METHOD FOR DETERMINING A ROTATIONAL ANGLE OF A ROTARY BODY ;

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ABSTRACT:

For the purpose of knowing an angular position and a rotational speed of a rotary body, according to an encoding pattern on an encoder mounted to and synchronously rotated with the rotary body, rotational angular position signals consisting of n-phase rectangular waves and sensing pulses occurring at a predetermined rotational angle interval are generated. In response to the issue of each sensing pulse, levels of the respective rotational angular position signals are detected, a variation pattern of a combination of the detected n levels is compared with a reference variation pattern, and it is determined whether an abnormal condition has arisen or not, and if the condition is normal, whether the variation pattern is a forward traveling pattern or a backward traveling pattern. In the case of the forward traveling pattern, (+1) is added to a rotational angle counter, while in the case of the backward traveling pattern, (-1) is added to the rotational angle counter.